FINAL ZONING

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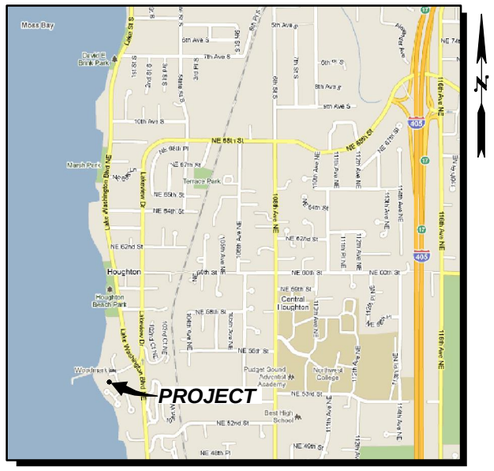
CARILLON POINT
SB13

2000 CARILLON POINT
KIRKLAND, WA 98033

PROPRIETARY INFORMATION



VICINITY MAP
NOT TO SCALE

PROJECT INFORMATION

CODE INFORMATION:

ZONING CLASSIFICATION:	COMMERCIAL (PLA 15A)
BUILDING CODE:	2009 IBC
CONSTRUCTION TYPE:	IIB
OCCUPANCY:	S-2
JURISDICTION:	KIRKLAND
PROPOSED BUILDING USE:	TELECOM

SITE LOCATION (NAD83):

LATITUDE:	47°39'19" N	(47.655277° N)
LONGITUDE:	122°12'22" W	(122.206111° W)
TOP OF STRUCTURE:	88.9' AMSL	67'-7" AGL
BASE OF STRUCTURE:	21.3' AMSL	0'-0" AGL

PROJECT LEASE AREA:
N/A

PARCEL NUMBER:
1725059058

NEW IMPERVIOUS AREA:
0 SF

AREA OF PARCEL:
11.36 ACRES

GENERAL INFORMATION:

1. PARKING REQUIREMENTS ARE UNCHANGED.
2. TRAFFIC IS UNAFFECTED.
3. SIGNAGE IS PROPOSED.

PROJECT DESCRIPTION:

AT&T MOBILITY CORPORATION PROPOSED TO MODIFY AN EXISTING UNSTAFFED TELECOMMUNICATIONS FACILITY WITH THE REPLACEMENT OF (3) PANEL ANTENNAS, THE ADDITION OF (6) RRH UNITS, AND (3) SURGE SUPPRESSION BOXES AT ANTENNA LEVEL; AND (1) GPS ANTENNA ON THE EXISTING BUILDING.

PROJECT CONTACT LIST

APPLICANT:
AT&T MOBILITY CORPORATION
RTC BUILDING 3
16221 NE 72ND WAY
REDMOND, WA 98052

PROJECT ENGINEER:
LDC, INC.
14201 NE 200TH ST, SUITE 100
WOODINVILLE, WA 98072
CONTACT: RYAN ANDERSON, P.E.
PHONE: (425) 806-1869
FAX: (425) 482-2893

STRUCTURAL ENGINEER:
LDC, INC.
14201 NE 200TH ST, SUITE 100
WOODINVILLE, WA 98072
CONTACT: DAVID OHNSAGER, P.E., S.E.
PHONE: (425) 806-1869
FAX: (425) 482-2893

PROJECT SURVEYOR:
LDC, INC.
14201 NE 200TH ST, SUITE 100
WOODINVILLE, WA 98072
CONTACT: LAWRENCE KNAPP, PLS
PHONE: (425) 806-1869
FAX: (425) 482-2893

RF ENGINEER:
CONTACT: LUKASZ GRABARSKI
PHONE: (425) 698-8272

PROJECT CONSULTANT:
GOODMAN NETWORKS
8815 122ND AVE NE
KIRKLAND, WA 98033

PROPERTY OWNER:
CARILLON PROPERTIES
3240 CARILLON POINT
KIRKLAND, WA 98033

PROJECT MANAGER:
CONTACT: WENDY LONG
wlong@goodmannetworks.com
PHONE: (206) 321-1116

SITE ACQUISITION:
CONTACT: NORRIS BACHO, MUP
norris@igwt.net
PHONE: (206) 227-4443

PERMITTING AGENT:
CONTACT: NORRIS BACHO, MUP
norris@igwt.net
PHONE: (206) 227-4443

CONSTRUCTION MANAGER:
CONTACT: KEITH ELWELL
keith.elwell@telcopacific.com
PHONE: (425) 753-3458

DRAWING INDEX

DRIVING DIRECTIONS

FROM SEA-TAC AIRPORT:

- MERGE ONTO I-405 (NORTH)
- TAKE EXIT 14 TO MERGE ONTO WA-520 W TOWARD SEATTLE
- TAKE THE 108TH AVE NE EXIT
- TURN RIGHT AT 108TH AVE NE
- TAKE THE 1ST LEFT ONTO NORTHUP WAY
- TAKE THE 1ST RIGHT ONTO LAKE WASHINGTON BLVD NE
- TURN LEFT AT ACCESS DRIVEWAY
- TAKE THE 1ST LEFT ONTO CARILLON POINT
- ARRIVE TO SITE, SITE IS ON RIGHT HAND SIDE

UTILITY COMPANIES

POWER:
PUGET SOUND ENERGY
PHONE: (888) 225-5773

TELEPHONE:
QWEST
PHONE: (800) 777-9594

LEGAL DESCRIPTION

POR GL 1 & 2 & BLKS F & G OF THE 2ND SUPL PLAT OF LK WN SH LDS TGW 2ND CL SHLDS ADJ ALL LY WLY OF W MGN LK WN BLVD-LESS POR N OF S LN OF N 1076.80 FT SD GL 1 & ITS WLY PROD - LESS POR THOF S OF LN BEG AT NXN 1902.66 FT S & PLW N LN GL 1 & W MGN LK WN BLVD TH S 03-09-13 E ALG W MGN 75 FT TO TPOB OF DESC LN TH N 88-35-53 W TO INNER HARBOR LN & TERMINUS THIS LN - LESS POR CONV BY REC 8907281497 AKA LOT B KK ALT LL #LL-91-50 REC 9104302101

APPROVAL / SIGN OFF OF FINAL ZONING DRAWINGS

CONSULTANT GROUP SIGN OFF	DATE	SIGNATURE	AT&T SIGN OFF	DATE	SIGNATURE
CONSTRUCTION COORDINATOR			COMPLIANCE		
LANDLORD'S REPRESENTATIVE			CONSTRUCTION MANAGER		
PROJECT MANAGER			DEPLOYMENT MANAGER		
SITE ACQUISITION			E-911 ENGINEER		Y N INITIAL:
ZONING			INTERCONNECT		
POWER/TELCO COORDINATOR			OPERATIONS		
			RF ENGINEER		
REVIEWERS SHALL CLEARLY PLACE INITIALS ADJACENT TO EACH REDLINE NOTE AS DRAWINGS ARE BEING REVIEWED			RF ENGINEER MANAGER		
			SITE ACQUISITION MANAGER		

Call 2 Business Days Before You Dig
1-800-424-5555
Utilities Underground Location Center
(ID,MT,ND,WA)

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at&t
Your world. Delivered.

LDC
THE CIVIL ENGINEERING GROUP
Commercial
Infrastructure
Residential
Telecom
14201 NE 200th St., #100
Woodinville, WA 98072
Ph. 425.806.1869
Fx. 425.482.2893
www.LDCcorp.com

DATE:	12-28-10
DRAWN BY:	BPC
CHECKED BY:	RJA

REVISIONS

REV	DATE	DESCRIPTION	BY
1	12-28-10	PRELIMINARY CONSTRUCTION	RJA
2	4-14-11	FINAL ZONING	RJA
3	6-21-11	FINAL ZONING	RJA

RYAN J. ANDERSON
STATE OF WASHINGTON
46331
REGISTERED
PROFESSIONAL ENGINEER
6-21-11

SITE
SB13
CARILLON POINT

2000 CARILLON POINT
KIRKLAND, WA 98033

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

Drawing: P:\2010_Telecom\10-601 AT&T - SB13 Carillon Pt\Drawings\Zoning\1060120-T1-0.dwg Plotted: Jun 23, 2011 - 9:41am

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY TOWER NETWORK CARRIER OF ANY ERRORS, OMISSIONS, OR INCONSISTENCIES AS THEY MAY BE DISCOVERED IN PLANS, DOCUMENTS, NOTES, OR SPECIFICATIONS PRIOR TO STARTING CONSTRUCTION INCLUDING, BUT NOT LIMITED BY, DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERROR, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF TOWER NETWORK CARRIER CONSTRUCTION PROJECT MANAGER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE MEANS OF CORRECTING ANY ERROR SHALL FIRST BE APPROVED BY TOWER NETWORK CARRIER CONSTRUCTION PROJECT MANAGER.

2. PRIOR TO THE SUBMISSION OF BIDS, CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE TO FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT. CONTRACTORS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR HAVING BEEN AWARDED THIS PROJECT SHALL VISIT THE CONSTRUCTION SITE WITH THE CONSTRUCTION/CONTRACT DOCUMENTS TO VERIFY FIELD CONDITIONS AND CONFIRM THAT THE PROJECT WILL BE ACCOMPLISHED AS SHOWN. PRIOR TO PROCEEDING WITH CONSTRUCTION, ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER VERBALLY AND IN WRITING.

3. FOR COLLOCATION SITES: CONTACT TOWER OWNER REPRESENTATIVE FOR PARTICIPATION IN BID WALK.

4. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE, THIS SET OF DOCUMENTS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSES ONLY, UNLESS NOTED OTHERWISE. THE GENERAL CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR, AND ANY REQUIREMENTS DEEMED NECESSARY TO COMPLETE PROJECT AS DESCRIBED IN THE DRAWINGS AND OWNER'S PROJECT MANUAL.

5. THE ARCHITECTS/ENGINEERS HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. CONTRACTORS BIDDING THE JOB ARE NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS. THE BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE ARCHITECT/ENGINEER OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO SUBMISSION OF CONTRACTOR'S PROPOSAL. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED OTHERWISE.

6. DRAWINGS ARE NOT TO BE SCALED UNDER ANY CIRCUMSTANCE. TOWER NETWORK CARRIER IS NOT RESPONSIBLE FOR ANY ERRORS RESULTING FROM THIS PRACTICE WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS.

7. OWNER, CONTRACTOR, AND TOWER NETWORK CARRIER CONSTRUCTION PROJECT MANAGER SHALL MEET JOINTLY TO VERIFY ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION.

8. THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.

9. THE CONTRACTOR SHALL PERFORM WORK DURING OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS.

10. THE CONTRACTOR SHALL PROVIDE TOWER NETWORK CARRIER PROPER INSURANCE CERTIFICATES NAMING TOWER NETWORK CARRIER AS ADDITIONAL INSURED, AND TOWER NETWORK CARRIER PROOF OF LICENSE(S) AND PE & PD INSURANCE.

11. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

12. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.

13. ALL WORK PERFORMED ON THE PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK.

14. GENERAL CONTRACTOR SHALL PROVIDE, AT THE PROJECT SITE, A FULL SET OF CONSTRUCTION DOCUMENTS UPDATED WITH THE LATEST REVISIONS AND ADDENDA OR CLARIFICATIONS FOR USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT. THIS SET IS A VALID CONTRACT DOCUMENT ONLY IF THE TITLE SHEET IS STAMPED "FOR CONSTRUCTION" AND EACH SUCCESSIVE SHEET BEARS THE ARCHITECT'S SIGNED WET STAMP.

15. A COPY OF GOVERNING AGENCY APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW, SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. THE PLANS ARE NOT TO BE USED BY THE WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION AS GOVERNING AGENCY APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS, IN GOOD CONDITION, COMPLETE WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES UNDER THE DIRECT CARE OF THE SUPERINTENDENT. THE CONTRACTOR SHALL SUPPLY TOWER NETWORK CARRIER CONSTRUCTION PROJECT MANAGER. WITH A COPY OF ALL REVISIONS, ADDENDA, AND/OR CHANGE ORDERS AT THE CONCLUSION OF THE WORK AS A PART OF THE AS-BUILT DRAWING RECORDS.

16. THE STRUCTURAL COMPONENTS OF ADJACENT CONSTRUCTION OR FACILITIES ARE NOT TO BE ALTERED BY THIS CONSTRUCTION PROJECT UNLESS NOTED OTHERWISE.

17. THE CONTRACTOR SHALL STUDY THE STRUCTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING PLANS AND CROSS CHECK THEIR DETAILS, NOTES, DIMENSIONS, AND ALL REQUIREMENTS PRIOR TO THE START OF ANY WORK.

18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE PROJECT AND SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.

19. THE CONTRACTOR HAS THE RESPONSIBILITY OF LOCATING ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THE PLANS, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR, OR SUBCONTRACTOR AS SPECIFIED IN THE AGREEMENT BETWEEN SUBCONTRACTOR AND CONTRACTOR, SHALL BEAR THE EXPENSES OF REPAIR AND/OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGE BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK.

20. THE REFERENCES ON THE DRAWINGS ARE FOR CONVENIENCE ONLY AND SHALL NOT LIMIT THE APPLICATION OF ANY DRAWING OR DETAIL.

21. ALL DIMENSIONS ON THE PLANS ARE TO FACE OF STUD (F.O.S.) UNLESS NOTED OTHERWISE (U.N.O.).

GENERAL NOTES CONT'D:

22. ALL EXISTING CONSTRUCTION, EQUIPMENT, AND FINISHES NOTED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE REMOVED FROM THE SITE WITH THE FOLLOWING EXCEPTIONS:
    A. PROPERTY NOTED TO BE RETURNED TO THE OWNER.
    B. PROPERTY NOTED TO BE REMOVED BY THE OWNER.

23. THE GOVERNING AGENCIES, CODE AUTHORITIES, AND BUILDING INSPECTORS SHALL PROVIDE THE MINIMUM STANDARDS FOR CONSTRUCTION TECHNIQUES, MATERIALS, AND FINISHES USED THROUGHOUT THE PROJECT. TRADE STANDARDS AND/OR PUBLISHED MANUFACTURERS SPECIFICATIONS MEETING OR EXCEEDING DESIGN REQUIREMENTS SHALL BE USED FOR INSTALLATION.

24. WHEN REQUIRED STORAGE OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER ROUGH FRAMED FLOORS OR ROOFS SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING AND/OR BRACING IS TO BE PROVIDED WHERE THE STRUCTURE HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.

25. PRIOR TO THE POURING OF ANY NEW SLAB OVER AN EXISTING SLAB THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OPENINGS, CHASES, AND EQUIPMENT WHICH ARE TO BE IMPLEMENTED INTO THE NEW WORK. ALL ITEMS DESIGNATED TO BE ABANDONED SHALL BE NOTED AND DISCUSSED WITH THE OWNER AND TOWER NETWORK CARRIER CONSTRUCTION PROJECT MANAGER AS PART OF THE AS-BUILT DRAWING PACKAGE.

26. SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL APPROVED MATERIALS IF APPLICABLE TO THIS FACILITY AND OR PROJECT SITE.

27. BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GRADING, CONSTRUCTION, AND ANY OTHER PROJECT EFFORT AS MANDATED BY THE GOVERNING AGENCY.

28. CONTRACTOR TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF PROJECT AREA DURING CONSTRUCTION.

29. THE PROJECT, WHEN COMPLETED, SHALL COMPLY WITH LOCAL SECURITY CODES AND TITLE-24 ENERGY CONSERVATION REQUIREMENTS. (TITLE-24 WHEN APPLICABLE)

30. ALL GLASS AND GLAZING IS TO COMPLY WITH CHAPTER 54 OF THE U.S. CONSUMER SAFETY COMMISSION - SAFETY STANDARDS FOR ARCHITECTURAL GLAZING MATERIALS (42 FR 1428, CFR PART 1201) AND LOCAL SECURITY REQUIREMENTS.

31. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.

32. CONTRACTOR SHALL KEEP GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, AND RUBBISH. CONTRACTOR SHALL REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OR PREMISES. SITE SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.

33. NEW CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL MATCH IN FORM, TEXTURE, FINISH, AND IN MATERIALS EXCEPT AS NOTED IN THE PLANS AND SPECIFICATIONS.

34. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BACKING, BLOCKING, AND/OR SLEEVES REQUIRED FOR THE INSTALLATION OF FIXTURES, MECHANICAL EQUIPMENT, PLUMBING, HARDWARE, AND FINISH ITEMS TO INSURE A PROPER AND COMPLETE JOB.

35. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A PROJECT LEVEL, STRAIGHT, AND TRUE ACCORDING TO THE PLANS. THE CONTRACTOR SHALL COMPARE THE LINES AND LEVELS OF THE EXISTING CONDITIONS WITH THOSE SHOWN ON THE PLANS PRIOR TO THE START OF ANY CONSTRUCTION. TOWER NETWORK CARRIER SHALL BE NOTIFIED OF ANY ERRORS, OMISSIONS, OR INCONSISTENCIES PRIOR TO ANY CONSTRUCTION.

36. THE CONTRACTOR IS TO PROVIDE PROTECTION FOR ADJOINING PROPERTIES FROM PHYSICAL HARM, NOISE, DUST, DIRT, AND FIRE AS REQUIRED BY THE GOVERNING AGENCIES.

37. WHERE SPECIFIED, MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AND/OR REVISIONS AVAILABLE AS REQUIRED BY THE GOVERNING AGENCY RESPONSIBLE FOR RECORDING THE RESULTS.

38. THE CONTRACTOR IS RESPONSIBLE FOR THE STORAGE OF ALL MATERIALS AND SHALL NOT DO SO ON PUBLIC PROPERTY WITHOUT A PERMIT TO DO SO FROM THE GOVERNING AGENCIES FOR THIS PURPOSE.

39. GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.

40. TRADES INVOLVED IN THE PROJECT SHALL BE RESPONSIBLE FOR THEIR OWN CUTTING, FITTING, PATCHING, ETC., SO AS TO BE RECEIVED PROPERLY BY THE WORK OF OTHER TRADES.

41. ALL DEBRIS AND REFUSE IS TO BE REMOVED FROM THE PROJECT PREMISES AND SHALL BE LEFT IN A CLEAN (BROOM FINISH) CONDITION AT ALL TIMES BY EACH TRADE AS THEY PERFORM THEIR OWN PORTION OF THE WORK..

42. TOWER NETWORK CARRIER DOES NOT GUARANTEE ANY PRODUCTS, FIXTURES, AND/OR ANY EQUIPMENT NAMED BY A TRADE OR MANUFACTURER. GUARANTEE OR WARRANTY THAT MAY BE IN EFFECT IS DONE SO THROUGH THE COMPANY OR MANUFACTURER PROVIDING THE PRODUCT, FIXTURE, AND/OR EQUIPMENT ONLY: UNLESS SPECIFIC RESPONSIBILITY IS ALSO PROVIDED BY THE CONTRACTOR/SUBCONTRACTOR IN WRITTEN FORM.

43. CAUTION! CALL BEFORE YOU DIG! BURIED UTILITIES EXIST IN THE AREA AND UTILITY INFORMATION SHOWN MAY NOT BE COMPLETE. CONTACT THE ONE-CALL UTILITY LOCATE SERVICE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. 1-800-424-5555.

44. CONTRACTOR TO REPLACE AND/OR REROUTE ANY EXISTING UNDERGROUND UTILITIES ENCOUNTERED DURING TRENCHING AND GENERAL CONSTRUCTION.

45. CONTRACTOR TO LOCATE ALL UTILITIES PRIOR TO PLACEMENT OF MONOPOLE FOOTING AND OTHER STRUCTURES TO BE PLACED IN GROUND. SEE GENERAL NOTE #6 ON THIS SHEET.

46. SEE CIVIL DRAWINGS FOR ADDITIONAL SITE INFORMATION.

47. CONTRACTOR TO DOCUMENT ALL WORK PERFORMED WITH PHOTOGRAPHS AND SUBMIT TO TOWER NETWORK CARRIER ALONG WITH REDLINED CONSTRUCTION SET.

GENERAL NOTES CONT'D:

48. CONTRACTOR TO DOCUMENT ALL CHANGES MADE IN THE FIELD BY MARKING UP (REDLINING) THE APPROVED CONSTRUCTION SET AND SUBMITTING THE REDLINED SET TO TOWER NETWORK CARRIER UPON COMPLETION.

49. GENERAL CONTRACTOR IS TO COORDINATE ALL POWER INSTALLATION WITH POWER COMPANY AS REQUIRED. CONTRACTOR TO REPORT POWER INSTALLATION COORDINATION SOLUTION(S) TO NETWORK CARRIER REPRESENTATIVE, PROJECT CONSTRUCTION MANAGER AND ARCHITECT.

50. ANY SUBSTITUTIONS OF MATERIALS AND/OR EQUIPMENT, MUST BE APPROVED BY TOWER NETWORK CARRIER CONSTRUCTION MANAGER.

51. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REMEDY ALL FAULTY, INFERIOR, AND/OR IMPROPER MATERIALS, DAMAGED GOODS, AND/OR FAULTY WORKMANSHIP FOR ONE (1) YEAR AFTER THE PROJECT IS COMPETE AND ACCEPTED UNDER THIS CONTRACT; UNLESS NOTED OTHERWISE IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR. (EXCEPTION) THE ROOFING SUBCONTRACTOR SHALL FURNISH A MAINTENANCE AGREEMENT FOR ALL WORK DONE, COSIGNED BY THE GENERAL CONTRACTOR, TO MAINTAIN THE ROOFING IN A WATERTIGHT CONDITION FOR A PERIOD OF TWO (2) YEARS STARTING AFTER THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT, UNLESS OTHERWISE WRITTEN IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR.

52. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR THE SAFETY OF THE OWNER'S EMPLOYEES, WORKMEN, AND ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT.

53. THE CONTRACTOR SHALL BE REQUIRED TO PAY FOR ALL NECESSARY PERMITS AND/OR FEES WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR HIS REPRESENTATIVE. CONTRACTOR SHALL OBTAIN PERMIT AND MAKE FINAL PAYMENT FOR SAID DOCUMENT.

54. THE ARCHITECT/ENGINEER IN CHARGE SHALL SIGN AND SEAL ALL DRAWINGS AND/OR SPECIFICATIONS.

55. TOWER NETWORK CARRIER WILL REVIEW AND APPROVE SHOP DRAWINGS AND SAMPLES FOR CONFORMANCE WITH DESIGN CONCEPT. TOWER NETWORK CARRIER PROJECT APPROVAL OF A SEPARATE ITEM SHALL NOT INCLUDE APPROVAL OF AN ASSEMBLY IN WHICH THE ITEM FUNCTIONS.

56. ALL ANTENNAS MOUNTED ON ROOF SUPPORT FRAMES TO BE PROVIDED BY TOWER NETWORK CARRIER COMMUNICATIONS.

57. CONTRACTOR TO PROVIDE TRENCH AS REQUIRED TO INSTALL BOTH ELECTRICAL AND TELEPHONE UNDERGROUND CONDUITS (#40 PVC) PER S.C.E. WORKORDER. BACKFILL WITH CLEAN SAND AND COMPACT TO THE SATISFACTION OF THE DISTRICTS INSPECTOR. REPLACE FINISH GRADE WITH MATCHING MATERIALS (GRASS, ASPHALT, CONCRETE, ETC.)

58. CONTRACTOR TO PROVIDE HEAVY STEEL PLATES AT OPEN TRENCHES FOR SAFETY AND TO PROTECT EXISTING GROUND SURFACES FROM HEAVY EQUIPMENT UTILIZED DURING CONSTRUCTION.

59. CONTRACTOR TO PATCH AND REPAIR ALL GROUND SURFACES WITHIN THE CONSTRUCTION AREA AS NECESSARY TO PROVIDE A UNIFORM SURFACE AND MAINTAIN EXISTING SURFACE DRAINAGE SLOPES.

60. CONTRACTOR TO REPLACE LANDSCAPE VEGETATION THAT WAS DAMAGED DUE TO CONSTRUCTION, AND TO MODIFY REMAINING IRRIGATION LINES TO OPERATING CONDITION, PROVIDING FULL COVERAGE TO IMPACTED AREAS.

61. IN THE CASE OF ROOFTOP SOLUTIONS FOR EQUIPMENT AND/OR ANTENNA FRAMES WHERE PENETRATION OF EXISTING ROOFING MATERIALS OCCUR, THE GENERAL CONTRACTOR SHALL COORDINATE WITH BUILDING OWNER AND BUILDING ROOFING CONTRACTOR OF RECORD FOR INSTALLATION, PATCH, REPAIR OR ANY AUGMENTATION TO THE ROOF, AND HAVE THE WORK GUARANTEED UNDER THE ROOFING CONTRACTOR'S WARRANTY FOR MOISTURE PENETRATION OR AND OTHER FUTURE BREACH OF ROOFING INTEGRITY.

62. IN THE CASE OF ROOFTOP SOLUTIONS WITH THE INSTALLATION OF ANTENNAS WITHIN CONCEALED (SHROUDED) SUPPORT FRAMES OR TRIPODS, THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE FRP DESIGNER/FABRICATOR TO ENSURE THAT THE FINAL FRP SHROUD IS SIMULATING (IN APPEARANCE) DESIGNATED EXISTING EXTERIOR BUILDING FACADE MATERIALS, TEXTURES, AND COLORS. THE CONTRACTOR SHALL FURTHERMORE ENSURE THE USE OF COUNTERSUNK FASTENERS IN ALL FRP CONSTRUCTION. WHEN PHOTOSIMULATIONS ARE PROVIDED, THE CONTRACTOR SHALL ENSURE THAT FINAL CONSTRUCTION REPRESENTS WHAT IS INDICATED IN PHOTOSIMULATION. SHOP DRAWINGS SHALL BE PROVIDED TO THE GENERAL CONTRACTOR, CONSTRUCTION COORDINATOR, AND ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.

63. IN THE CASE OF ROOFTOP SOLUTIONS FOR EQUIPMENT AND/OR ANTENNA FRAMES WHERE ANCHORING TO A CONCRETE ROOF SLAB IS REQUIRED, CONTRACTORS SHALL CONFIRM (PRIOR TO SUBMITTING BID) WITH CONSULTING CONSTRUCTION COORDINATOR AND ARCHITECT THE PRESENCE OF POST TENSION TENDONS WITHIN THE ROOF SLAB - RESULTING FROM AN UNDOCUMENTED DESIGN CHANGE IN THE EXISTING BUILDING "AS-BUILT DRAWING SET" - HAVING INDICATED AN ORIGINAL DESIGN SOLUTION OF REINFORCED CONCRETE W/ EMBEDDED STEEL REBAR. IN THE EVENT POST TENSION SLAB SOLUTION IS PRESENT, CONTRACTOR SHALL INCLUDE PROVISIONS FOR X-RAY PROCEDURES (INCLUDED IN BID) FOR ALL PENETRATION AREAS WHERE ANCHORING OCCURS.

64. GENERAL & SUB CONTRACTORS SHALL USE STAINLESS STEEL METAL LOCKING TIES FOR ALL CABLE TRAY TIE DOWNS AND ALL OTHER GENERAL TIE DOWNS (WHERE APPLICABLE). PLASTIC ZIP TIES SHALL NOT BE PERMITTED FOR USE ON TOWER NETWORK CARRIER PROJECTS. RECOMMENDED MANUFACTURE SHALL BE: PANDUIT CORP. METAL LOCKING TIES MODEL NO. MLT4S-CP UNDER SERIES-304 (OR EQUAL). PANDUIT PRODUCT DISTRIBUTED BY TRIARC.

65. ALL WORK TO BE DONE BETWEEN HOURS OF 8:00 AM AND 5:00 PM, EXCLUDING HOLIDAYS.

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LDC
THE CIVIL ENGINEERING GROUP
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Infrastructure
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Telecom
14201 NE 200th St., #100
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Fx. 425.482.2893
www.LDCcorp.com

DATE:	12-28-10
DRAWN BY:	BPC
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REVISIONS

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2	4-14-11	FINAL ZONING	RJA
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RYAN J. ANDERSON
STATE OF WASHINGTON
46331
REGISTERED
PROFESSIONAL ENGINEER

SITE
SB13
CARILLON POINT

2000 CARILLON POINT
KIRKLAND, WA 98033

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
G-1

DESIGN CRITERIA:

1. THE STRUCTURAL DESIGN OF THIS PROJECT IS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE 2009 WITH WASHINGTON STATE BUILDING CODE AMENDMENTS (2009 IBC)

2. DESIGN LOADS:

   DESIGN DATA FOR KIRKLAND, WASHINGTON

   -ROOF SNOW LOAD ——————— 25 PSF

   -BASIC WIND SPEED ——————— 85 MPH

   -WIND EXPOSURE ——————— B

   -SEISMIC ZONE ——————— D

CONCRETE NOTES:

1. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI-318.

2. CONCRETE SHALL BE MIXED, PROPORTIONED CONVEYED AND PLACED IN ACCORDANCE WITH CHAPTER 19 OF THE 2009 IBC. STRENGTHS AT 28 DAYS AND MIX CRITERIA SHALL BE AS FOLLOWS.

	TYPE OF CONSTRUCTION	28 DAY STRENGTHS (f'c)	W/C RATIO	MINIMUM CEMENT CONTENT PER CUBIC YARD
A.	SLABS ON GRADE TOPPING SLABS CONCRETE PIERS	2,400 PSI	≤ .45	5 1/2 SACKS
B.	ALL STRUCTURAL CONCRETE EXCEPT WALLS	4,000 PSI	≤ .45	6 1/2 SACKS
C.	CONCRETE WALLS	4,000 PSI	≤ .45	6 1/2 SACKS

   CEMENT SHALL BE ASTM C150, PORTLAND CEMENT TYPE II U.N.O.

3. THE GENERAL CONTRACTOR SHALL SUPERVISE AND BE RESPONSIBLE FOR THE METHODS AND PROCEDURES OF CONCRETE PLACEMENT.

4. ALL CONCRETE WITH SURFACES EXPOSED TO STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, C618, C989, AND C1017. TOTAL AIR CONTENT SHALL BE IN ACCORDANCE WITH ACI 318, SECTION 4.4.1.

5. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, fy=60,000 PSI. EXCEPTIONS: ANY BARS APECIFICALLY SO NOTED ON THE DRAWINGS SHALL BE GRADE 40, fy=40,000 PSI. GRADE 60 REINFORCING BARS INDICATED ON DRAWINGS TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCING COMPLYING WITH ASTM A615 (S1) MAY BE WELDED ONLY IF MATERIAL PROPERTY REPORTS INDICATING CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN A.W.S. D14 ARE SUBMITTED.

6. REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH AC1 315 AND 318. LAP ALL CONTINUOUS REINFORCEMENT AT LEAST 30 BAR DIAMETERS OF A MINIMUM OF 2'-0". PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS AT LEAST 30 BAR DIAMETERS OR A MINIMUM OF 2'-0". LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.

7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.

8. SPIRAL REINFORCEMENT SHALL BE PLAIN WIRE CONFORMING TO ASTM A615, GRADE 60, fy=60,000 PSI.

9. NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE CONSULTANT.

10. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

- FOOTINGS AND OTHER UNFORMED SURFACES, EARTH FACE		3"
- FORMED SURFACES EXPOSED TO EARTH OR WEATHER	(#6 BARS OR LARGER)	2"
	(#5 BARS OF SMALLER)	1 1/2"
- SLABS AND WALLS (INTERIOR FACE)		3/4"

11. BARS SHALL BE SUPPORTED ON CHAIRS OR DOBIE BRICKS.

12. ANCHOR BOLTS TO CONFORM TO ASTM A307

13. NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (3,000 PSI MINIMUM).

14. ALL EXPANSION ANCHORS TO BE HILTI BRAND. ADHESIVE ANCHORS REQUIRE TESTING TO CONFIRM CAPACITY UNLESS WAIVED BY ENGINEER.

STRUCTURAL STEEL NOTES;

1. SHOP DRAWINGS FOR STRUCTURAL STEEL SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW PRIOR TO FABRICATION.

2. STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION (INCLUDING FIELD WELDING, HIGH STRENGTH FIELD BOLTING, EXPANSION BOLTS, AND THREADED EXPANSION ANCHORS) SHALL BE BASED ON THE A.I.S.C. "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" LATEST EDITION. SUPERVISION SHALL BE IN ACCORDANCE WITH 2009 IBC CHAPTER 22, BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE CONSULTANT. THE CONSULTANT SHALL BE FURNISHED WITH A COPY OF ALL INSPECTION REPORTS AND TEST RESULTS.

3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

   TYPE OF MEMBER

   A. PLATES, SHAPES, ANGLES, AND RODS
   B. SPECIAL SHAPES AND PLATES
   C. PIPE COLUMNS
   D. STRUCTURAL TUBING
   E. ANCHOR BOLTS
   F. CONNECTION BOLTS

4. ALL MATERIAL TO BE HOT DIPPED GALVANIZED AFTER FABRICATION PER A123/A123M-00.

5. ALL WELDING SHALL BE IN CONFORMANCE WITH A.I.S.C. AND AWS STANDARDS AND SHALL BE PERFORMED BY W.A.B.O. CERTIFIED WELDERS USING E70 XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED. WELDING OF GRADE 60 REINFORCING BARS (IF REQUIRED) SHALL BE PERFORMED USING LOW HYDROGEN ELECTRODES. WELDING OF GRADE 40 REINFORCING BARS (IF REQUIRED) SHALL BE PERFORMED USING E70 XX ELECTRODES. WELDING WITHIN 4" OF COLD BENDS IN REINFORCING STEEL IS NOT PERMITTED. SEE REINFORCING NOTE FOR MATERIAL REQUIREMENTS OF WELDED BARS.

6. COLD-FORMED STEEL FRAMING MEMBERS SHALL BE OF THE SHAPE, SIZE, AND GAGE SHOWN ON THE PLANS. PROVIDE MINIMUM SECTION PROPERTIES INDICATED. ALL COLD-FORMED STEEL FRAMING SHALL CONFORM TO THE A.I.S.S. "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."

7. BOLTED CONNECTIONS SHALL USE BEARING TYPE ASTM A325 BOLTS (3/4" DIA.) AND SHALL HAVE A MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.

8. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A307 BOLTS UNLESS NOTED OTHERWISE.

9. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE DESIGN & CONSTRUCTION SPECIFICATION AND IN ACCORDANCE WITH ASTM A36 UNLESS NOTED OTHERWISE.

10. ALL WELDS TO BE 1/4" FILLET UNLESS NOTED OTHERWISE.

11. TOUCH UP ALL FIELD DRILLING AND WELDING WITH 2 COATS OF GALVACON (ZINC RICH PAINT) OR APPROVED EQUAL.

BUILDING NOTES:

1. VERIFICATION THAT THE EXISTING BUILDING ROOF CAN SUPPORT THE PROPOSED ANTENNA LOADING IS TO BE DONE BY OTHERS.

2. PROVIDE SUPPORTS FOR THE ANTENNA COAX CABLES TO THE ELEVATION OF ALL INITIAL AND FUTURE ANTENNAS. ANTENNA COAX CABLES ARE TO BE SUPPORTED AND RESTRAINED AT THE CENTERS SUITABLE TO THE MANUFACTURER'S REQUIREMENTS.

ABBREVIATED ROOF TOP SAFETY PROCEDURES (WHEN APPLICABLE):

(AS PER "ACCIDENT PREVENTION PROGRAM" - BY PERMISSION OF WREN CONSTRUCTION, INC. - 03/01/99)

FALL PROTECTION METHODS AND EQUIPMENT
ROOF TOP INSTALLATIONS

1. FOR WORK IS BEING PERFORMED WITHIN 25' OF AN UNPROTECTED ROOF EDGE, THE CONSTRUCTION SUPERVISOR SHALL DESIGNATE A TRAINED SAFETY MONITOR TO OBSERVE THE MOVEMENTS AND ACTIVITIES OF THE CONSTRUCTION WORKERS.

2. SAFETY MONITOR SHALL WARN CONSTRUCTION WORKERS OF HAZARDS (I.E., BACKING UP TOWARD A ROOF EDGE, ETC.) OR UNSAFE ACTIVITIES. THE SAFETY MONITOR MUST BE ON THE SAME ROOF AND WITHIN VISUAL AND VERBAL DISTANCE OF THE CONSTRUCTION WORKERS.

3. CONSTRUCTION INVOLVING WORKERS TO APPROACH WITHIN 6' OR LESS OF AN UNPROTECTED ROOF EDGE, REQUIRES WORKERS TO USE SAFETY LINE.

4. SAFETY LINE SHALL BE MINIMUM 1/2" DIAMETER NYLON, WITH A NOMINAL TENSILE STRENGTH OF 5400 LBS.

5. SAFETY LINE SHALL BE ATTACHED TO A SUBSTANTIAL MEMBER OF THE STRUCTURE.

6. SAFETY LINE LENGTH SHALL BE SET ALLOWING CONSTRUCTION WORKER TO REACH EDGE OF ROOF, BUT NOT BEYOND.

7. SAFETY BELTS SHALL BE WORN BY ALL CONSTRUCTION WORKERS.

8. MONTHLY SAFETY INSPECTION AND MAINTENANCE OF THE FALL PROTECTION EQUIPMENT SHALL OCCUR BY THE SAFETY COMMITTEE REPRESENTATIVES, INCLUDING:

   INSPECTION OF CONSTRUCTION AREA FOR HAZARDS
   USE OF AN INSPECTION CHECKLIST
   INTERVIEWING COWORKERS REGARDING SAFETY CONCERNS
   REPORTING AND DOCUMENTING ANY HAZARDS
   REPORTING HAZARDS TO THE SAFETY COMMITTEE FOR CONSIDERATION
   POSTING RESULTS OF INSPECTION AND ANY ACTION TAKEN
   RECEIVING AN UNBIASED REVIEW OF ONE'S OWN WORK AREA BY ANOTHER COWORKER SAFETY REPRESENTATIVE

REFER TO ROOFTOP WORK AREA SAFETY PROTOCOL
NATIONAL ASSOCIATION OF TOWER ERECTORS 2000 PUBLICATION

REFERENCED OSHA REGULATION/STANDARDS SHALL BE REVIEWED BY TOWER ERECTORS,
EQUIPMENT INSTALLERS, AND TOWER/ROOF TOP CONTRACTORS/SUBCONTRACTORS
29 CFR 1926.500 - SCOPE, APPLICATION, AND DEFINITIONS
29 CFR 1926.501 - DUTY TO HAVE FALL PROTECTION
19 CFR 1926.502 - FALL PROTECTION SYSTEMS CRITERIA AND PRACTICES

SYMBOLS AND ABBREVIATIONS:

A/C	AIR CONDITIONING	HORZ	HORIZONTAL	SHT	SHEET
AGL	ABOVE FINISH GRADE	HR	HOUR	SIM	SIMILAR
APPROX	APPROXIMATELY	HT	HEIGHT	SPEC	SPECIFICATION
		HVAC	HEATING VENTILATION AIR CONDITIONING	SF	SQUARE FOOT
BLDG	BUILDING			SS	STAINLESS STEEL
BLK	BLOCKING			STL	STEEL
				STRUCT	STRUCTURAL
CLG	CEILING	ID	INSIDE DIAMETER	STD	STUD
CLR	CLEAR	IN	INCH	SUSP	SUSPENDED
CONC	CONCRETE	INFO	INFORMATION		
CONST	CONSTRUCTION	INSUL	INSULATION	THRU	THROUGH
CONT	CONTINUOUS	INT	INTERIOR	TNNG	TINNED
		IBC	INTERNATIONAL BUILDING CODE	TYP	TYPICAL
DBL	DOUBLE			UNO	UNLESS NOTED OTHERWISE
DIA	DIAMETER	LBS	POUNDS		
DIAG	DIAGONAL	MAX	MAXIMUM		
DN	DOWN	MECH	MECHANICAL	VERT	VERTICAL
DET	DETAIL	MTL	METAL	VIF	VERIFY IN FIELD
DWG	DRAWING	MFR	MANUFACTURE		
		MGR	MANAGER	W/	WITH
EA	EACH	MIN	MINIMUM	W/O	WITHOUT
ELEV	ELEVATION	MISC	MISCELLANEOUS	WP	WATER PROOF
ELEC	ELECTRICAL				
EQ	EQUAL	NA	NOT APPLICABLE		
EQUIP	EQUIPMENT	NIC	NOT IN CONTRACT		
EXT	EXTERIOR	NTS	NOT TO SCALE		
FIN	FINISH	OC	ON CENTER		
FLUOR	FLUORESCENT	OD	OUTSIDE DIAMETER		
FLR	FLOOR				
FT	FOOT	PLYWD	PLYWOOD		
		PROJ	PROJECT		
GA	GAUGE	PROP	PROPERTY		
GALV	GALVANIZED	PT	PRESSURE TREATED		
GC	GENERAL CONTRACTOR	REQ	REQUIRED		
GRND	GROUND	RM	ROOM		
GYP BD	GYPSUM WALL BOARD	RO	ROUGH OPENING		

—— UGT ——	UNDERGROUND TELECO
—— OHT ——	OVERHEAD TELECO
—— UGP ——	UNDERGROUND POWER
—— OHP ——	OVERHEAD POWER
——P——	PROPANE
——UG——	UNDERGROUND UTILITY
——COAX——	COAXIAL CABLE
◈	ANTENNA
℄	CENTERLINE
(E)	EXISTING
(P)	NEW
X / X-X	DETAIL NUMBER SHEET NUMBER

SPECIAL INSPECTIONS REQUIRED:

SOILS COMPLIANCE PRIOR TO FOUNDATION INSPECTION
CONCRETE OVER 2400 PSI (5 1/2 SACK MIX) AT 28 DAYS

CONCRETE PLACEMENT AT SLAB ON GRADE
WRITTEN CERTIFICATION FOR PROPER PLACEMENT OF REINFORCEMENTS AT SLAB ON GRADE

FOUNDATION EXCAVATION AND FILL INCLUDING UTILITY TRENCHES

CERTIFICATION OF BUILDING PAD, FOUNDATION AND FILL BY THE GEOTECHNICAL ENGINEER OF THE RECORD

☐ VERIFICATIONS OF MILL REPORT
☐ IDENTIFICATION OF STEEL AND AT JOB SITE
☐ ADHESIVE BOLTS IN CONCRETE OR MASONRY
☐ ANCHOR BOLTS INSTALLATION AND PLACEMENT IN CONCRETE
☐ HIGH STRENGTH BOLTING

☐ SPRAYED -ON- FIREPROOFING
☐ STRUCTURAL MASONRY
☐ PRESTRESSED CONCRETE
☐ ALL FIELD WELDING
☐ REINFORCING PLACEMENT
☐ DESIGNER SPECIFIED (SEE SHEET#__)
☐ OTHER _____

SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED AND SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

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DRAWN BY:	BPC
CHECKED BY:	RJA

REVISIONS

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1	12-28-10	PRELIMINARY CONSTRUCTION	RJA
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RYAN J. ANDERSON — STATE OF WASHINGTON — 46331 — REGISTERED PROFESSIONAL ENGINEER

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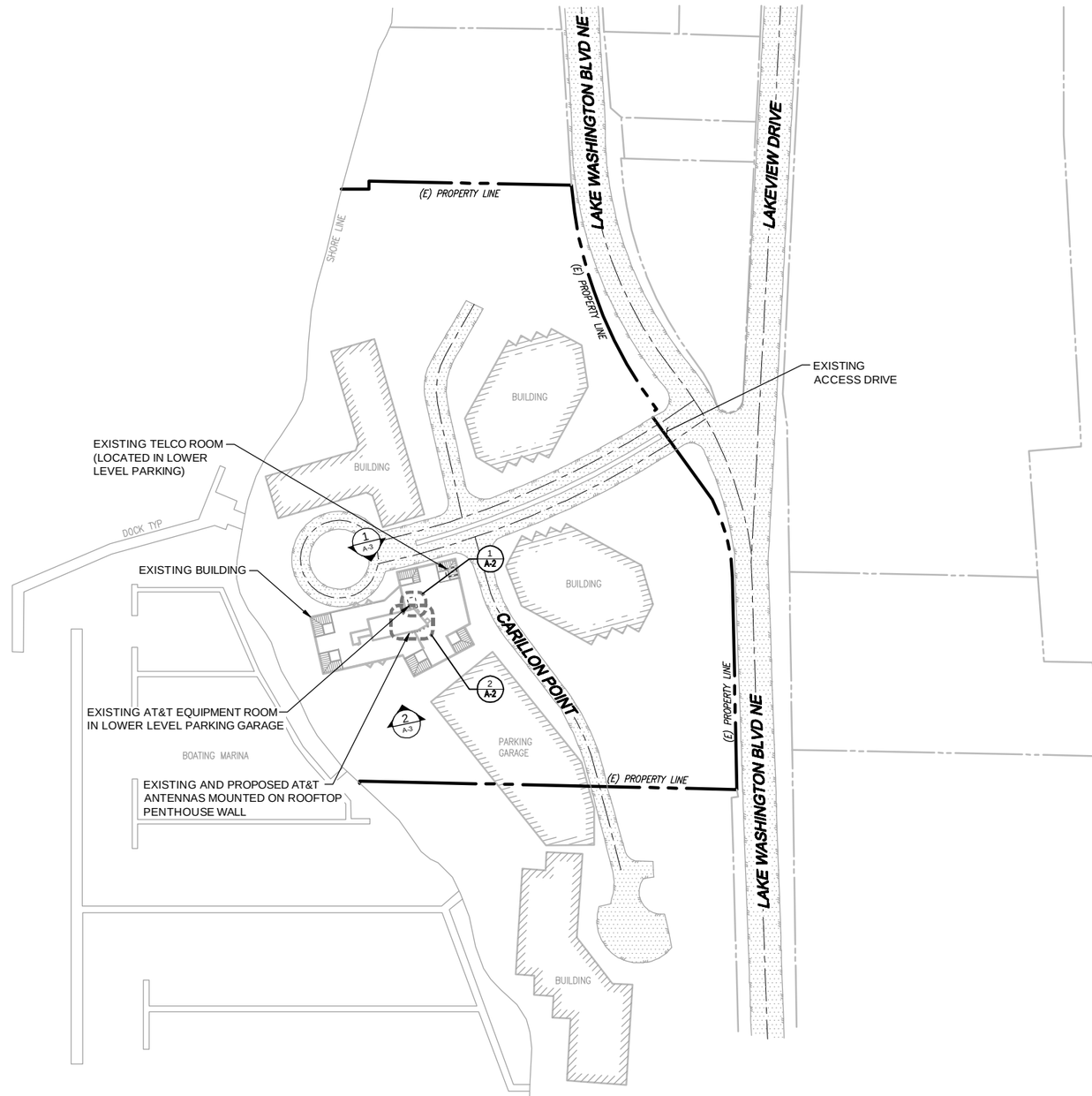
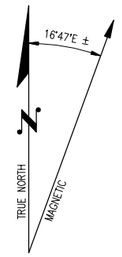
SHEET TITLE
GENERAL NOTES AND SYMBOLS

SHEET NUMBER
G-2





SITE PLAN

22"x34" SCALE: 1" = 100'

11"x17" SCALE: 1" = 200'

1

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SHEET TITLE

SITE PLAN

SHEET NUMBER

A-1

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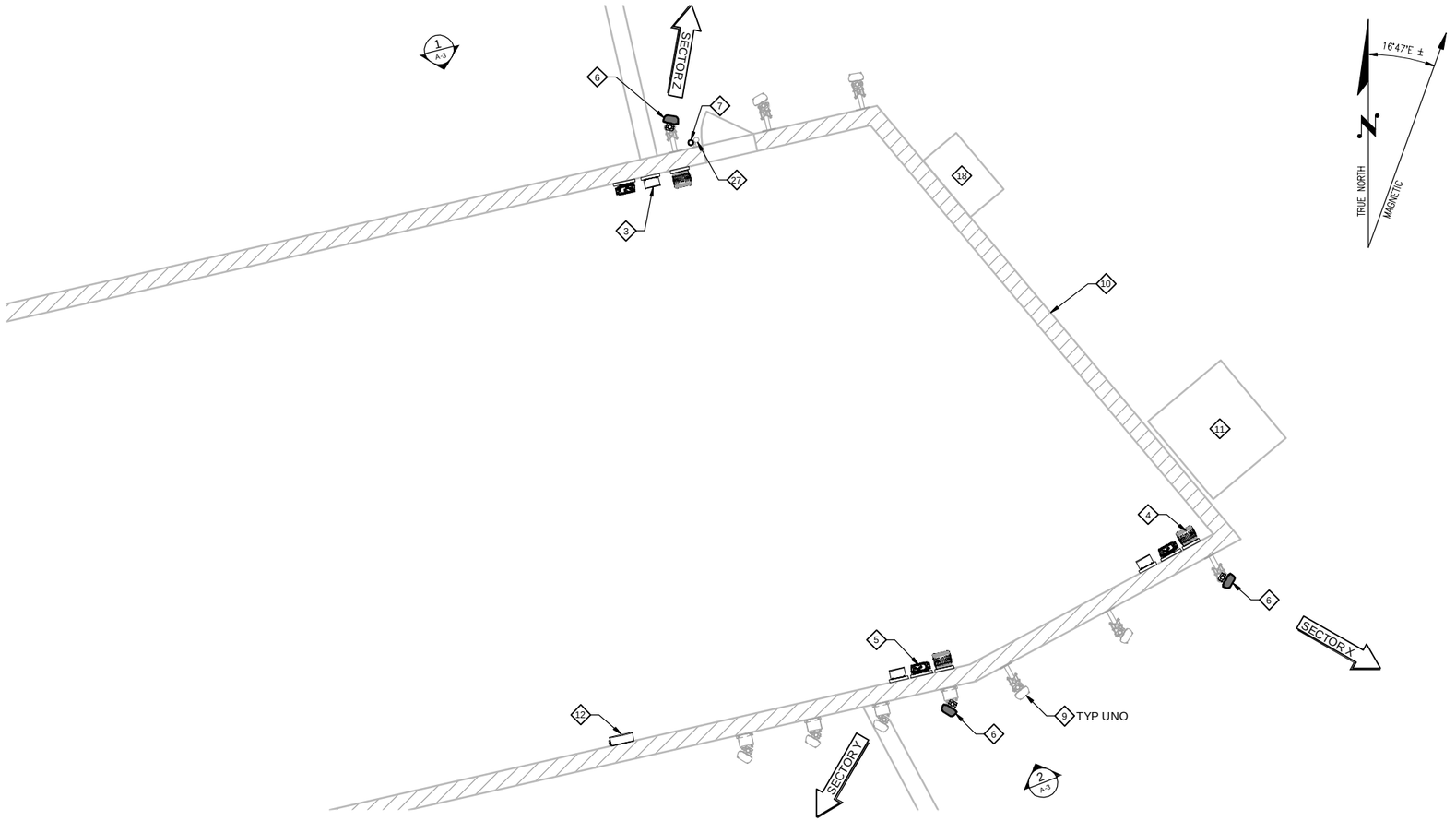
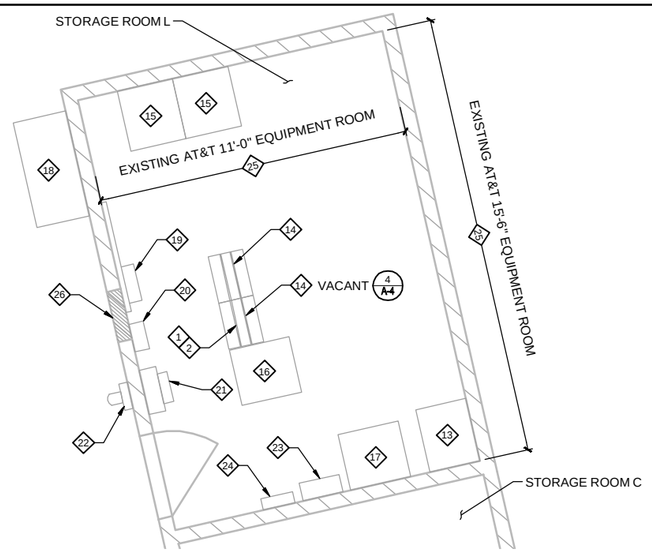


ENLARGED ANTENNA PLAN

22"x34" SCALE: 1/4" = 1'-0" | 11"x17" SCALE: 1/8" = 1'-0"

2



ENLARGED EQUIPMENT ROOM PLAN

22"x34" SCALE: 3/8" = 1'-0" | 11"x17" SCALE: 3/16" = 1'-0"

1

CONSTRUCTION PLAN KEYED NOTES

1. PROPOSED AT&T 9926 BBU EQUIPMENT MOUNTED ON EXISTING FIF RACK. (2/A-4)
2. PROPOSED AT&T EXCESS FIBER CABLE ENCLOSURE MOUNTED ON EXISTING FIF RACK. (1/A-4)
3. PROPOSED AT&T RAYCAP SURGE SUPPRESSOR BOX MOUNTED NEAR ANTENNA ON THE EXISTING PENTHOUSE WALL (TYP OF (1) PER SECTOR). (2/RF-1) (1/RF-2)
4. PROPOSED AT&T 700 MHZ RRH UNIT MOUNTED NEAR ANTENNA ON THE EXISTING PENTHOUSE WALL (TYP OF (1) PER SECTOR). (2/RF-1) (3/RF-2)
5. PROPOSED AT&T AWS RRH UNIT MOUNTED NEAR ANTENNA ON THE EXISTING PENTHOUSE WALL (TYP OF (1) PER SECTOR). (2/RF-1) (2/RF-2)
6. PROPOSED AT&T LTE PANEL ANTENNA TO REPLACE AN EXISTING PANEL ANTENNA. (1) LTE ANTENNA PER SECTOR FOR A TOTAL OF (3). (2/RF-1) (4-6/RF-2)
7. PROPOSED AT&T GPS ANTENNA MOUNTED ON EXISTING PIPE MOUNT NEXT TO EXISTING GPS ANTENNA. (7/RF-2)
9. EXISTING AT&T ANTENNA (TO REMAIN).
10. EXISTING PENTHOUSE (TO REMAIN).
11. EXISTING ROOFTOP VENT (TO REMAIN).
12. PROPOSED AT&T FIBER/POWER JUNCTION BOX. (3/A-4)
13. EXISTING AT&T BATTERY RACK (TO REMAIN).
14. EXISTING AT&T FIF RACK (TO REMAIN).
15. EXISTING AT&T GSM CABINET (TO REMAIN).
16. EXISTING AT&T UMTS CABINET (TO REMAIN).
17. EXISTING AT&T ARGUS POWER CABINET (TO REMAIN).
18. EXISTING HVAC UNIT (TO REMAIN).
19. EXISTING AT&T TELCO EQUIPMENT ON EXISTING BACKBOARD (TO REMAIN).
20. EXISTING AT&T ALARM W/ POWER RELAY BELOW (TO REMAIN).
21. EXISTING AT&T TRANSFER SWITCH (TO REMAIN).
22. EXISTING AT&T GEN PLUG (TO REMAIN).
23. EXISTING AT&T POWER PANEL W/ SURGE ARRESTOR BELOW (TO REMAIN).
24. EXISTING AT&T SUB-PANEL (TO REMAIN).
25. EXISTING AT&T EQUIPMENT ROOM (TO REMAIN).
26. EXISTING AT&T COAX ENTRY PORT (TO REMAIN).
27. EXISTING AT&T GPS ANTENNA (TO REMAIN).

SITE NOTES

1. VERIFY ANTENNA MODEL, RAD CENTER & AZIMUTHS WITH LOCKDOWN SET RF SITE BUILD FORM.

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ENLARGED SITE PLAN

SHEET NUMBER
A-2

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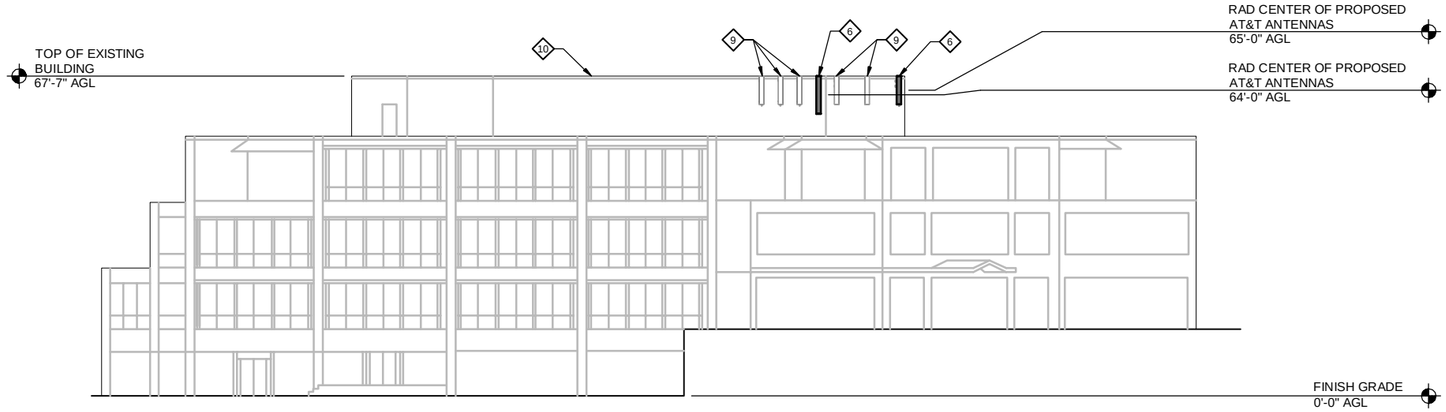
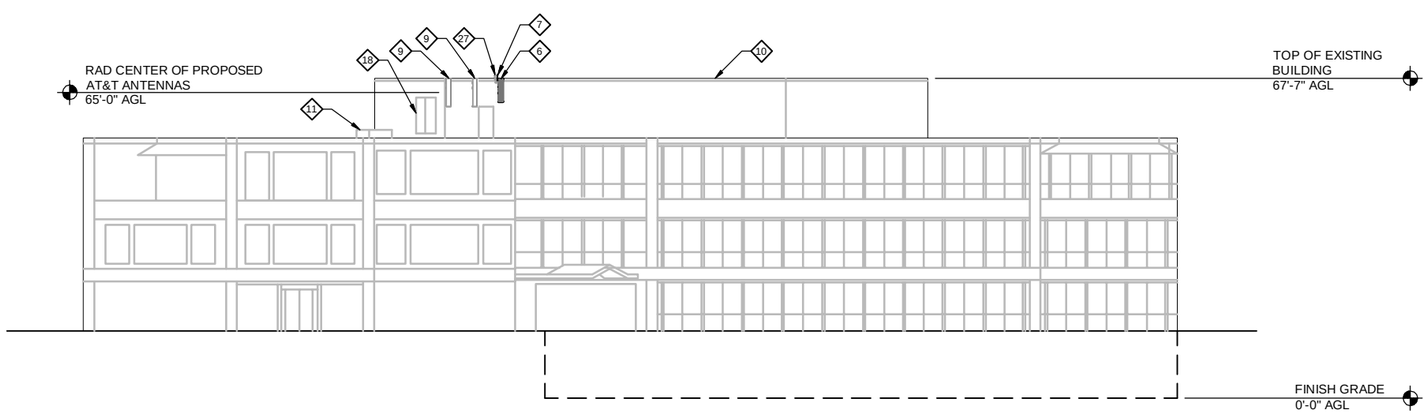


SOUTH ELEVATION (LOOKING NORTH)

22"x34" SCALE: 1/16" = 1'-0" | 11"x17" SCALE: 1/32" = 1'-0" | **2**



NORTH ELEVATION (LOOKING SOUTH)

22"x34" SCALE: 1/16" = 1'-0" | 11"x17" SCALE: 1/32" = 1'-0" | **1**

CONSTRUCTION PLAN KEYED NOTES

6 PROPOSED AT&T LTE PANEL ANTENNA TO REPLACE AN EXISTING PANEL ANTENNA. (1) LTE ANTENNA PER SECTOR FOR A TOTAL OF (3). (2 RF-1) (4-6 RF-2)

7 PROPOSED AT&T GPS ANTENNA MOUNTED ON EXISTING PIPE MOUNT NEXT TO EXISTING GPS ANTENNA. (7 RF-2)

9 EXISTING AT&T ANTENNA (TO REMAIN).

10 EXISTING PENTHOUSE (TO REMAIN).

11 EXISTING ROOFTOP VENT (TO REMAIN).

18 EXISTING HVAC UNIT (TO REMAIN).

27 EXISTING AT&T GPS ANTENNA (TO REMAIN).

SITE NOTES

1. VERIFY ANTENNA MODEL, RAD CENTER & AZIMUTHS WITH LOCKDOWN SET RF SITE BUILD FORM.

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SHEET TITLE
ELEVATION

SHEET NUMBER
A-3

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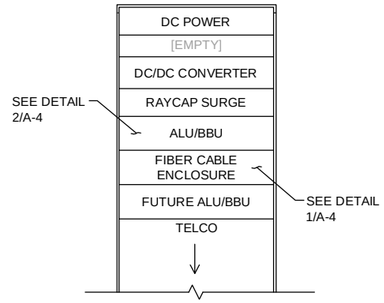


NOT USED
NOT TO SCALE

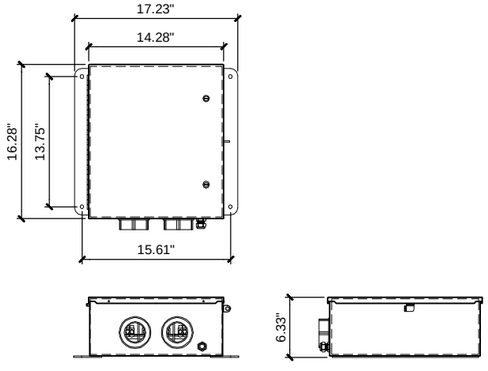
6

NOT USED
NOT TO SCALE

5

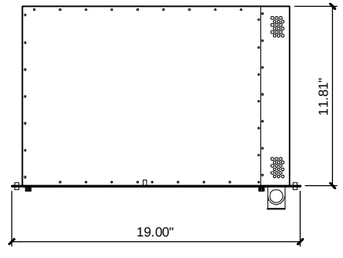
FIF RACK CONFIGURATION
NOT TO SCALE

4

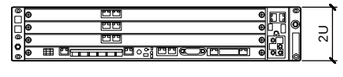


MANUFACTURER: RAYCAP
MODEL: DC6-48-60-0-1E
FIBER POWER CONNECTOR

MANUFACTURER: ALCATEL - LUCENT
MODEL: 9926 BBU
HEIGHT: 19"
WIDTH: 3.469"; 2U (RACK UNITS)
DEPTH: 11.81"
WEIGHT: 26 LBS



TOP



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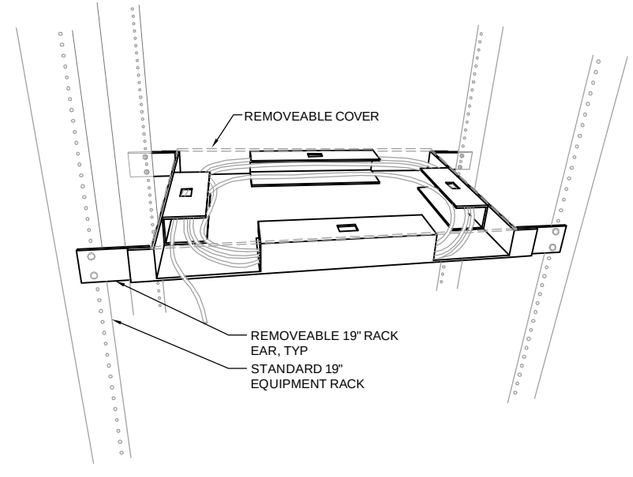

MANUFACTURER: ROSENBERGER
MODEL: FB-15-ABOX CEQ 10505
EXCESS FIBER CABLE ENCLOSURE
DIMENSIONS: 17"W X 1-3/4"H (1U) X 12"D
CAPACITY: 20m (65'±) OF 10MM CABLE

FIBER/POWER CONNECTION BOX
NOT TO SCALE

3

RACK MOUNTED BBU DETAIL
NOT TO SCALE

2

EXCESS FIBER CABLE ENCLOSURE
NOT TO SCALE

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RYAN J. ANDERSEN
STATE OF WASHINGTON
46331
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PROFESSIONAL ENGINEER

SITE
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CARILLON POINT

2000 CARILLON POINT
KIRKLAND, WA 98033

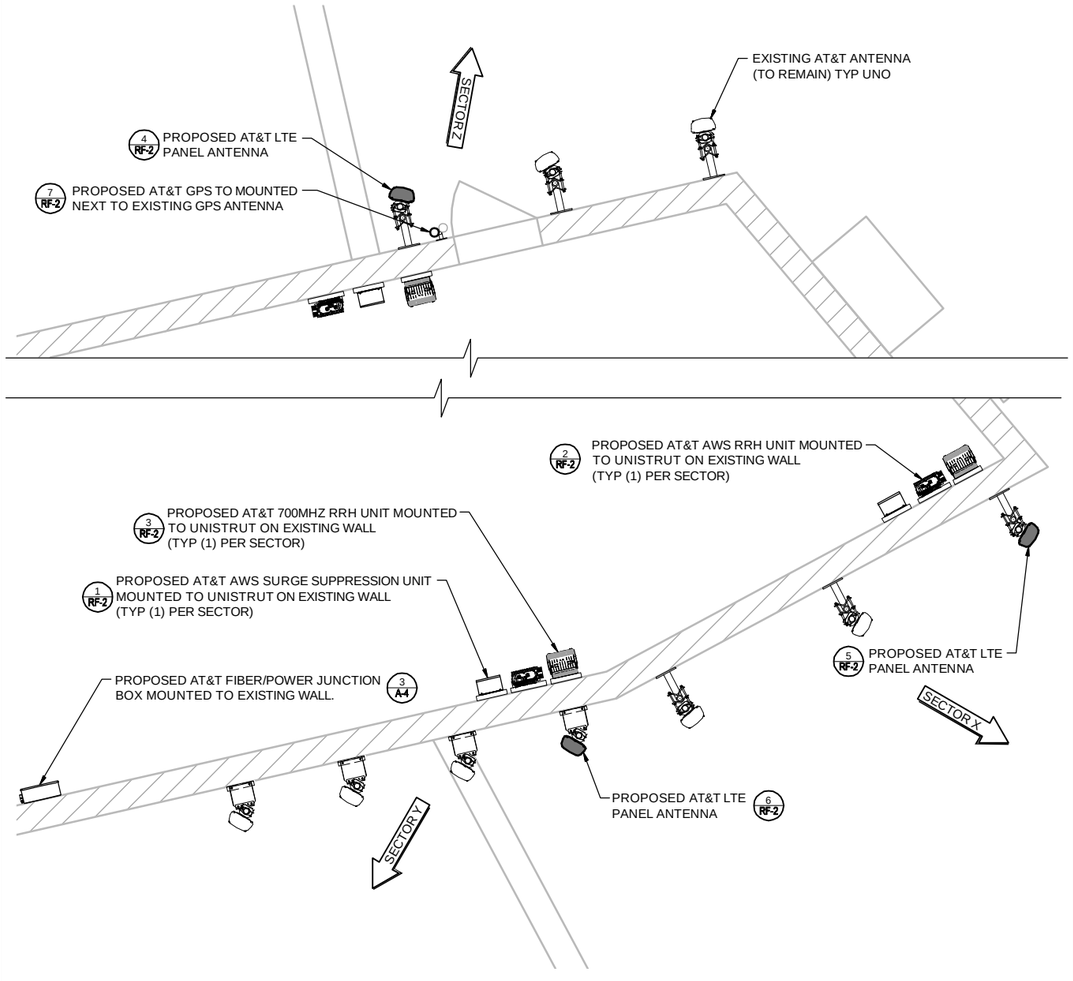
SHEET TITLE
CONSTRUCTION DETAILS

SHEET NUMBER
A-4

Drawing: P:\2010_Telecom\10-601 AT&T - SB13 Carillon Pt\Drawings\Zoning\1060120-A4-0.dwg Plotted: Jun 23, 2011 - 9:42am

PROPOSED ANTENNA CONFIGURATION AND SCHEDULE

SECTOR X	AZIMUTH	RADCENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	ELEC. TILT	MECH. TILT	RET	TMA	NUMBER OF COAX	COAX Ø	COAX LENGTH	DIPLEXED
GSM 850	140°	65'	1	KATHREIN	742-264	0°	-3°	YES	NONE	2	7/8"	190'	YES G8 G9
GSM 1900		65'				0°		YES	CS72993.08				
UMTS 850	140°	65'	1	KATHREIN	742-264	3°	-3°	YES	NONE	2	7/8"	190'	YES U8 U9 U9 1
UMTS 1900		65'				0°		YES	LGP 21401				
UMTS 1900 1		65'				0°		YES	LGP 21401				
LTE 700	120°	65'	1	KMW	AM-X-CD-16-65-00T	3°	0°	YES		0	FIBER	315'±	NO
SECTOR Y	AZIMUTH	RADCENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	ELEC. TILT	MECH. TILT	RET	TMA	NUMBER OF COAX	COAX Ø	COAX LENGTH	DIPLEXED
GSM 850	210°	65'	1	KATHREIN	739 684	7°	0°	YES	NONE	2	7/8"	190'	YES G8 G9
GSM 1900	210°	65'	1	POWERWAVE	7721	3°	0°	YES	CS72993.08				
UMTS 850	210°	65'	1	KATHREIN	742 265	8°	0°	YES	NONE	2	7/8"	190'	YES U8 U9 U9 1
UMTS 1900		65'				3°		YES	LGP 21401				
UMTS 1900 1		65'				3°		YES	LGP 21401				
LTE 700	210°	64'	1	POWERWAVE	P65-17-XLH-RR	4°	2°	YES		0	FIBER	315'±	NO
SECTOR Z	AZIMUTH	RADCENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	ELEC. TILT	MECH. TILT	RET	TMA	NUMBER OF COAX	COAX Ø	COAX LENGTH	DIPLEXED
GSM 850	350°	65'	1	KATHREIN	742-264	8°	0°	YES	NONE	2	7/8"	190'	YES G8 G9
GSM 1900		65'				4°		YES	CS72993.08				
UMTS 850	350°	65'	1	KATHREIN	742-264	6°	4°	YES	NONE	2	7/8"	190'	YES U8 U9 U9 1
UMTS 1900		65'				2°		YES	LGP 21401				
UMTS 1900 1		65'				2°		YES	LGP 21401				
LTE 700	10°	65'	1	KATHREIN	80010764	12°	0°	YES		0	FIBER	315'±	NO



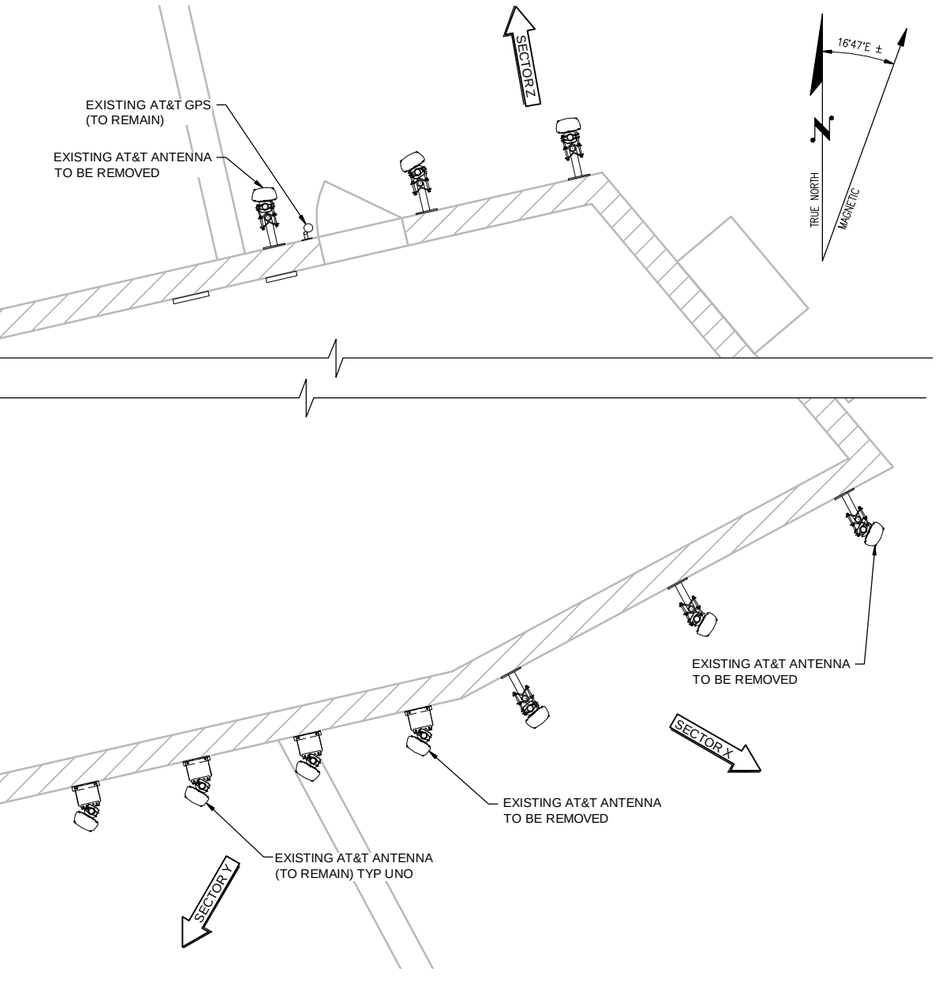
PROPOSED ANTENNA CONFIGURATION

22"x34" SCALE: 3/8" = 1'-0" | 11"x17" SCALE: 3/16" = 1'-0"

2

EXISTING ANTENNA CONFIGURATION AND SCHEDULE

SECTOR X	AZIMUTH	RADCENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	ELEC. TILT	MECH. TILT	RET	TMA	NUMBER OF COAX	COAX Ø	COAX LENGTH	DIPLEXED
GSM 850	120°	65'	1	KATHREIN	742-264	0°	-3°	YES	NONE	2	7/8"	190'	YES G8 G9
GSM 1900		65'				0°		YES	CS72993.08				
UMTS 850	140°	65'	1	KATHREIN	742-264	3°	-3°	YES	NONE	2	7/8"	190'	YES U8 U9 U9 1
UMTS 1900		65'				0°		YES	LGP 21401				
UMTS 1900 1		65'				0°		YES	LGP 21401				
TDMA 850 (OFF)	115°	65'	1	POWERWAVE	7263	0°	0°	NO	NONE	2	1-5/8"	100'	NO
SECTOR Y	AZIMUTH	RADCENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	ELEC. TILT	MECH. TILT	RET	TMA	NUMBER OF COAX	COAX Ø	COAX LENGTH	DIPLEXED
GSM 850	210°	65'	1	KATHREIN	739 684	7°	0°	YES	NONE	2	7/8"	190'	YES G8 G9
GSM 1900	210°	65'	1	POWERWAVE	7721	3°	0°	YES	CS72993.08				
UMTS 850	210°	65'	1	KATHREIN	742-264	8°	0°	YES	NONE	2	7/8"	190'	YES U8 U9 U9 1
UMTS 1900		65'				3°		YES	LGP 21401				
UMTS 1900 1		65'				3°		YES	LGP 21401				
TDMA 850 (OFF)	235°	65'	1	KATHREIN	739 684	0°	0°	NO	NONE	2	1-5/8"	100'	NO
SECTOR Z	AZIMUTH	RADCENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	ELEC. TILT	MECH. TILT	RET	TMA	NUMBER OF COAX	COAX Ø	COAX LENGTH	DIPLEXED
GSM 850	330°	65'	1	KATHREIN	742-264	8°	0°	YES	NONE	2	7/8"	190'	YES G8 G9
GSM 1900		65'				4°		YES	CS72993.08				
UMTS 850	350°	65'	1	KATHREIN	742-264	6°	4°	YES	NONE	2	7/8"	190'	YES U8 U9 U9 1
UMTS 1900		65'				2°		YES	LGP 21401				
UMTS 1900 1		65'				2°		YES	LGP 21401				
TDMA 850 (OFF)	355°	65'	1	POWERWAVE	7263	0°	0°	NO	NONE	2	1-5/8"	100'	NO



EXISTING ANTENNA CONFIGURATION

22"x34" SCALE: 3/8" = 1'-0" | 11"x17" SCALE: 3/16" = 1'-0"

1

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ANTENNA CONFIGURATIONS

SHEET NUMBER
RF-1

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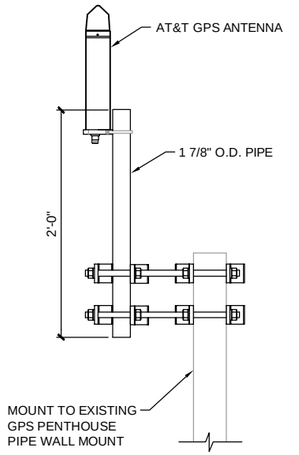
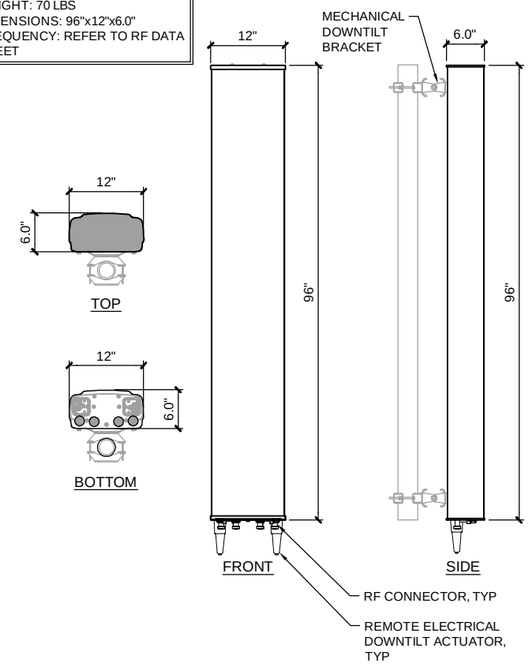


NOTES

1. LOCATION OF ANTENNA MUST HAVE CLEAR VIEW OF SOUTHERN SKY AND CONNOT HAVE ANY BLOCKAGES EXCEEDING 25% OF THE SURFACE AREA OF A HEMISPHERE AROUND THE GPS ANTENNA.
2. ALL GPS ANTENNA LOCATIONS MUST BE ABLE TO RECEIVE CLEAR SIGNALS FROM A MINIMUM OF FOUR (4) SATELLITES. VERIFY WITH HANDHELD GPS BEFORE FINAL LOCATION OF GPS ANTENNA.

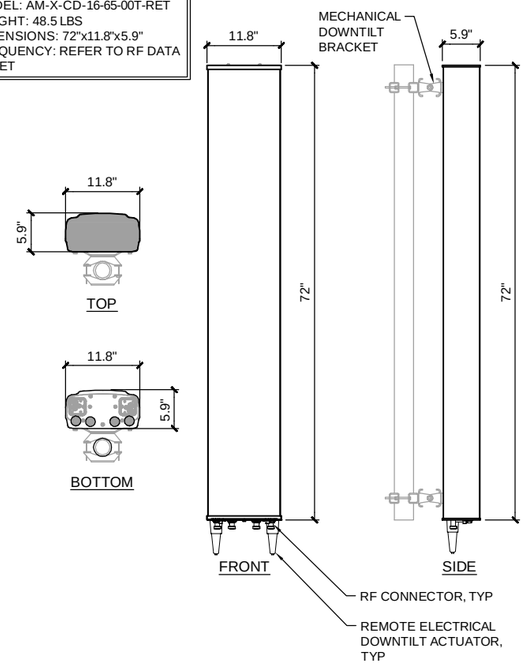
GPS MOUNTING DETAIL 7
NOT TO SCALE

MANUFACTURER: POWERWAVE
MODEL: P65-17-XLH-RR
WEIGHT: 70 LBS
DIMENSIONS: 96"x12"x6.0"
FREQUENCY: REFER TO RF DATA SHEET



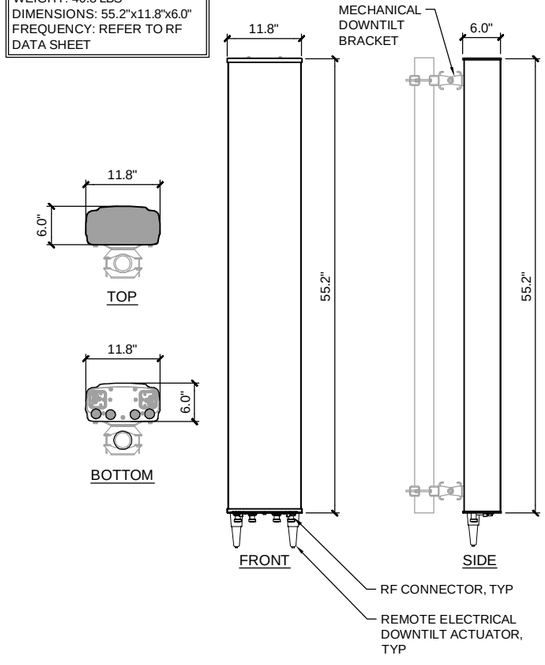
POWERWAVE ANTENNA SPECS 6
NOT TO SCALE

MANUFACTURER: KMW
COMMUNICATIONS
MODEL: AM-X-CD-16-65-00T-RET
WEIGHT: 48.5 LBS
DIMENSIONS: 72"x11.8"x5.9"
FREQUENCY: REFER TO RF DATA SHEET

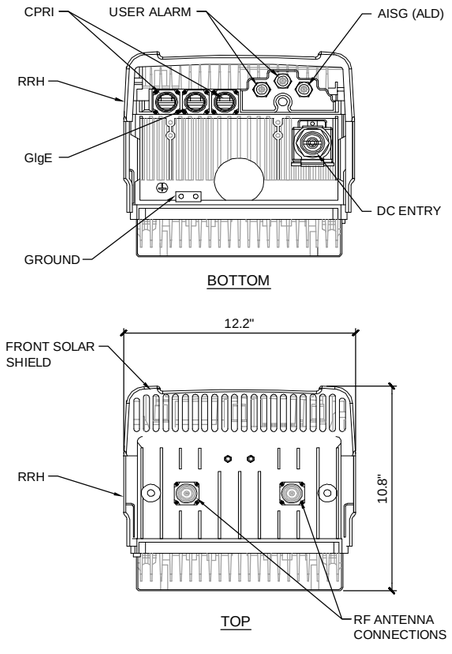


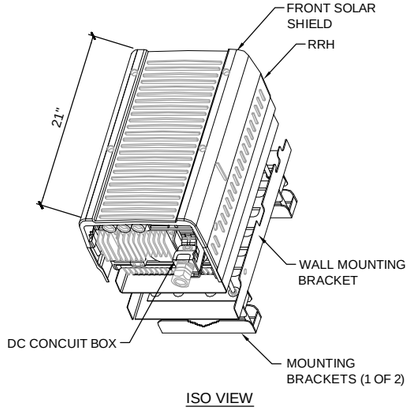
KMW ANTENNA SPECS 5
NOT TO SCALE

MANUFACTURER: KATHREIN
MODEL: 80010764
WEIGHT: 40.8 LBS
DIMENSIONS: 55.2"x11.8"x6.0"
FREQUENCY: REFER TO RF DATA SHEET



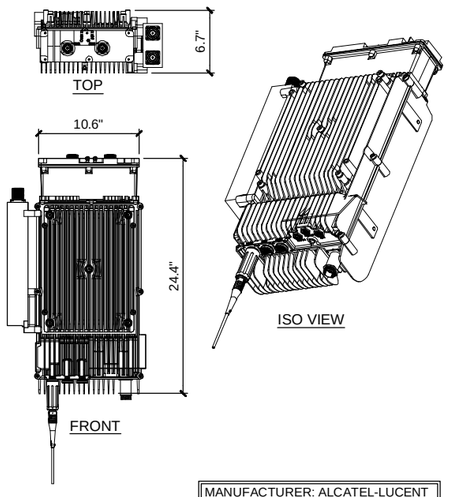
KATHREIN ANTENNA SPECS 4
NOT TO SCALE





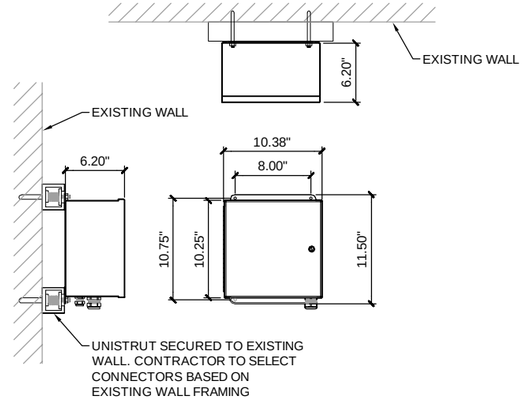
MANUFACTURER: ALCATEL-LUCENT
MODEL: RRH 700MHZ W/SOLAR SHIELD
HEIGHT: 21.0"
WIDTH: 12.2"
DEPTH: 10.8"
WEIGHT: 51 LBS

RRH 700MHZ DETAIL 3
NOT TO SCALE



MANUFACTURER: ALCATEL-LUCENT
MODEL: 9442 RRH AWS
HEIGHT: 24.4"
WIDTH: 10.6"
DEPTH: 6.7"
WEIGHT: 43 LBS

RRH AWS DETAIL 2
NOT TO SCALE



MANUFACTURER: RAYCAP
MODEL: DC2-48-60-0-9E
SURGE PROTECTOR

SURGE SUPPRESSION BOX 1
NOT TO SCALE

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RF DETAILS

SHEET NUMBER
RF-2

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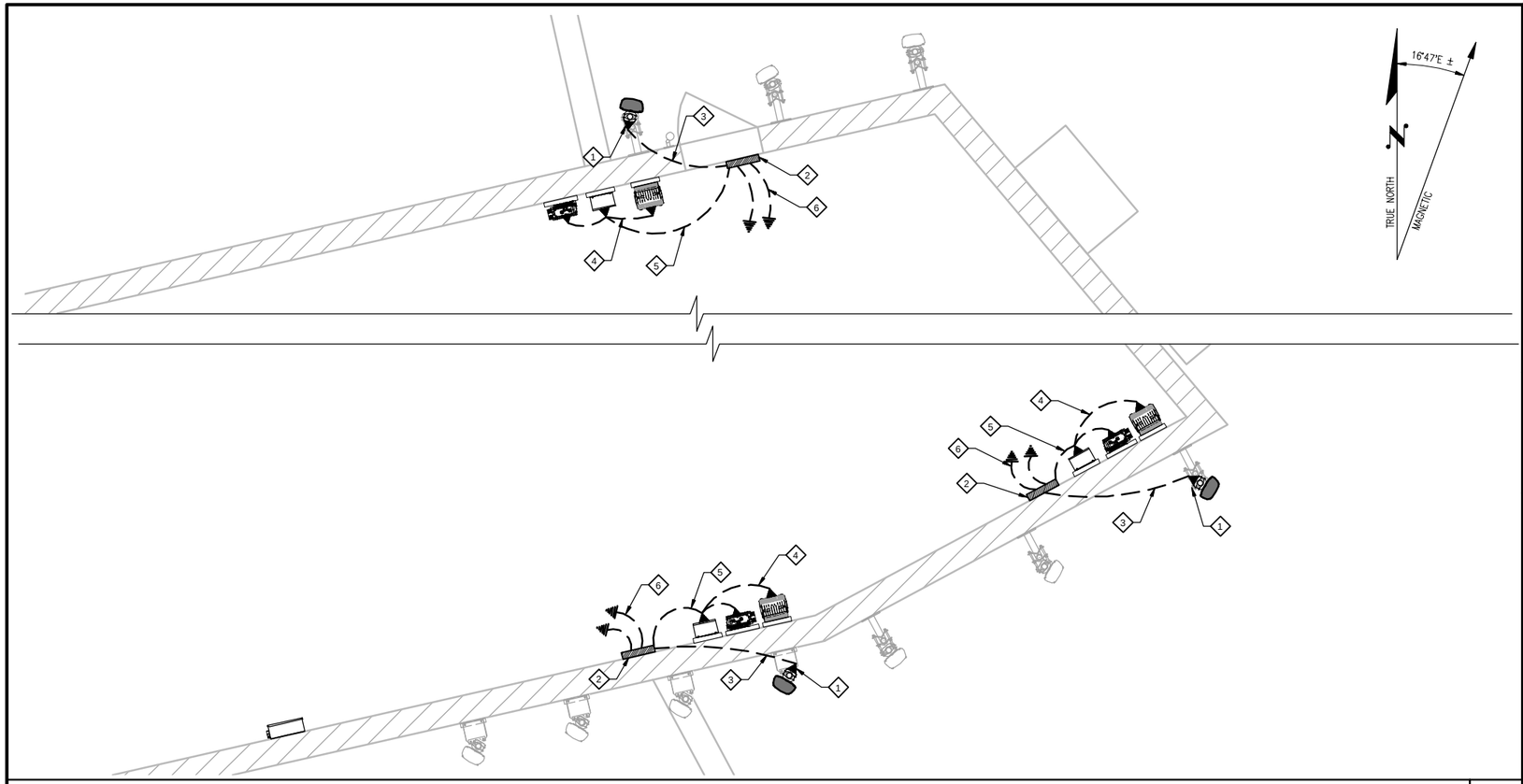
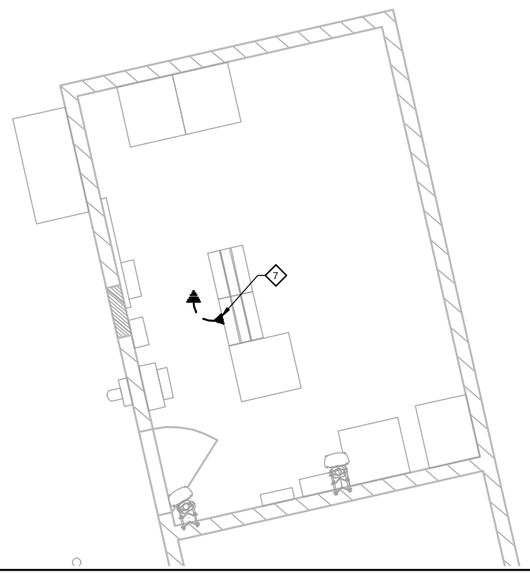


SCHEMATIC GROUNDING ANTENNA PLAN

22"x34" SCALE: 3/8" = 1'-0" | 11"x17" SCALE: 3/16" = 1'-0"

2



SCHEMATIC GROUNDING EQUIPMENT PLAN

22"x34" SCALE: 0" = 3/8'-0" | 11"x17" SCALE: 3/16" = 1'-0"

1

GROUNDING KEYED NOTES

1. CAD WELD (TYP). SEE DETAIL 2/E-2.
2. EXISTING ANTENNA GROUND BUS BAR NEAR ANTENNAS WITH COAX GROUND KIT. SEE DETAIL 6/E-2 FOR GROUND BAR CONSTRUCTION. SEE DETAIL 5/E-2 FOR GROUND WIRE CONNECTIONS, AND SEE DETAIL 3/E-2 FOR COAX GROUNDING.
3. #6 AWG ANTENNA MOUNT GROUND TO ANTENNA GROUND BUS BAR (TYP OF 3).
4. #6 AWG GROUND FROM RRH UNIT TO ANTENNA SURGE SUPPRESSION BOX (TYP OF 1 PER SECTOR).
5. #6 AWG GROUND FROM SURGE SUPPRESSION BOX TO TIE INTO ANTENNA GROUND BUS BAR.
6. #6 AWG GROUND FROM ANTENNA GROUND BUS BAR TO TIE INTO EXISTING ROOF GROUNDING SYSTEM (TYP OF (2) PLACES)
7. #6 AWG LTE EQUIPMENT BACK TO TIE INTO EXISTING SYSTEM GROUND RING.

BUILDING GROUNDING NOTES

1. AT&T TO TIE INTO EXISTING BUILDING GROUNDING SYSTEM FOR ELECTRICAL AND TELCO AT SAME LOCATIONS AS EXISTING ELECTRICAL AND TELCO SERVICES.

GENERAL GROUNDING NOTES

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
2. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES AND CONNECT TO SURFACE MOUNTED BUS BARS. FOLLOW ANTENNA AND BTS MANUFACTURER'S PRACTICES FOR GROUNDING REQUIREMENTS.
3. ALL GROUND CONNECTIONS SHALL BE CADWELD. ALL WIRES SHALL BE COPPER THHN/THWN. ALL GROUND WIRE SHALL BE GREEN INSULATED WIRE ABOVE GROUND.
4. CONTRACTOR TO VERIFY AND TEST GROUND SOURCE.
5. REFER TO DIVISION 16 GENERAL ELECTRIC; GENERAL ELECTRICAL PROVISION AND COMPLY WITH ALL REQUIREMENTS OF GROUNDING STANDARDS.
6. ELECTRICAL CONTRACTOR TO PROVIDE DETAILED DESIGN OF GROUNDING SYSTEM, AND RECEIVE APPROVAL OF DESIGN BY AUTHORIZED AT&T REPRESENTATIVE, PRIOR TO INSTALLATION OF GROUNDING SYSTEM. PHOTO DOCUMENT ALL CALDWELDS AND GROUND RINGS.

GROUNDING LEGEND

- GROUND BAR
- GROUND INSPECTION WELL
- COPPER GROUND ROD
- CADWELD CONNECTION
- SIDE SPLICE CADWELD
- FIELD VERIFY & TIE INTO EXISTING GROUNDING SYSTEM

GROUNDING ROD NOTES (WHERE APPLICABLE)

1. ELECTRICAL CONTRACTOR SHALL ORDER GROUND RESISTANCE TESTING ONCE THE GROUND SYSTEM HAS BEEN INSTALLED; A QUALIFIED INDIVIDUAL, UTILIZING THE FALL OF POTENTIAL METHOD, SHOULD PERFORM THE TEST. THE REPORT WILL SHOW THE LOCATION OF THE TEST AND CONTAIN NO LESS THAN 9 TEST POINTS ALONG THE TESTING LINE, GRAPHED OUT TO SHOW THE PLATEAU.
2. POINT GROUND TEST OR 3 POINT 62% TESTS WILL NOT BE ACCEPTED AS ALTERNATIVES TO THE AFORE MENTIONED GROUND TESTS. TEST SHALL BE PERFORMED WHILE THE COUNTERPOISE IS ISOLATED FROM THE A/C SYSTEM GRIDS AND EXISTING COMMUNICATIONS FACILITY.

PROPRIETARY INFORMATION

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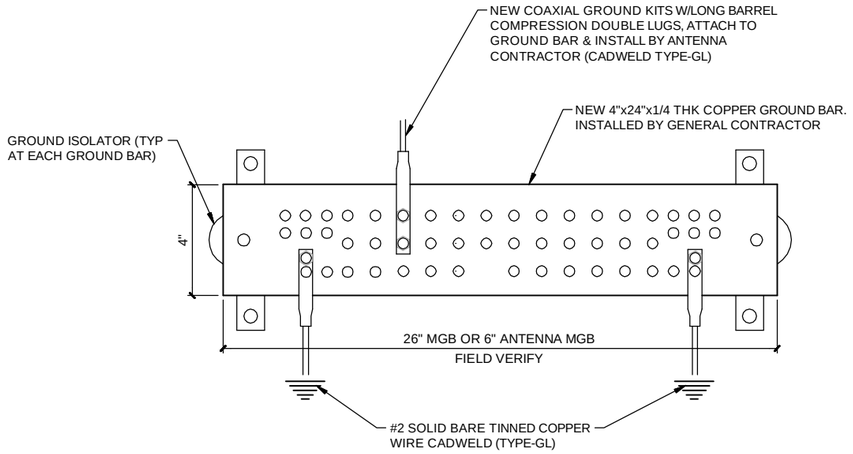
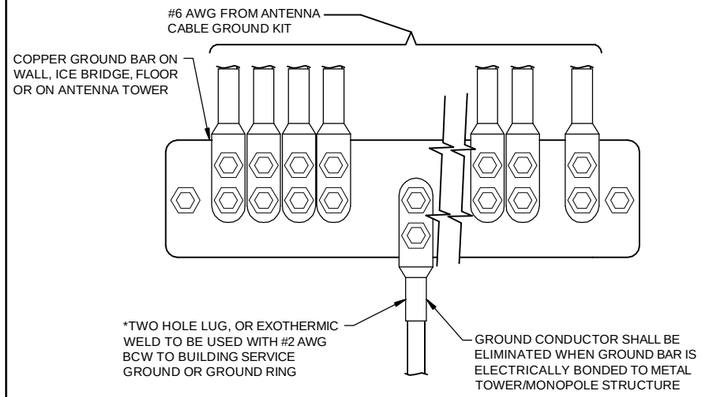


NOTE

COAT ALL MECHANICAL CONNECTIONS WITH "NOOX" OR APPROVED EQUAL

GROUND BAR 6

NOT TO SCALE

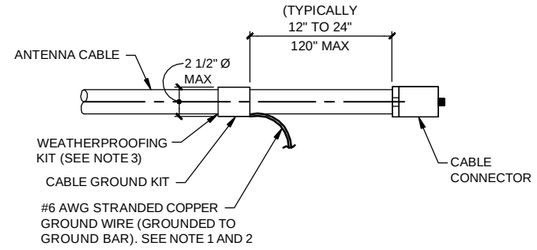


NOTE

GROUND BARS AT BOTTOM OF TOWERS/MONOPOLES SHALL ONLY USE EXOTHERMIC WELDS.

GROUND WIRE INSTALLATION 5

NOT TO SCALE

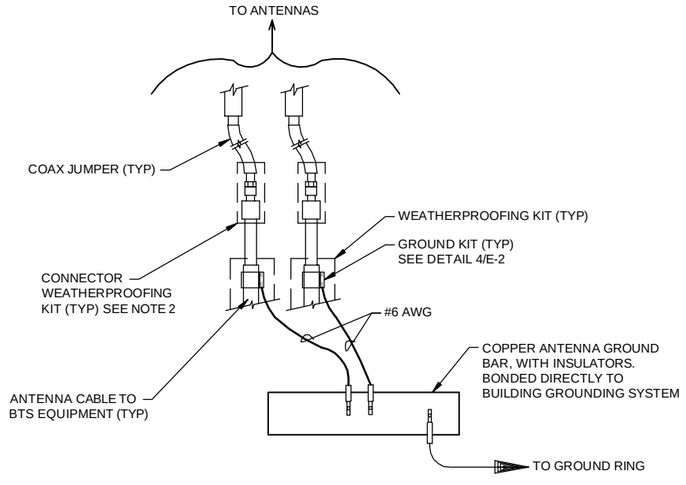


NOTES

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

CABLE GROUND KIT CONNECTION 4

NOT TO SCALE

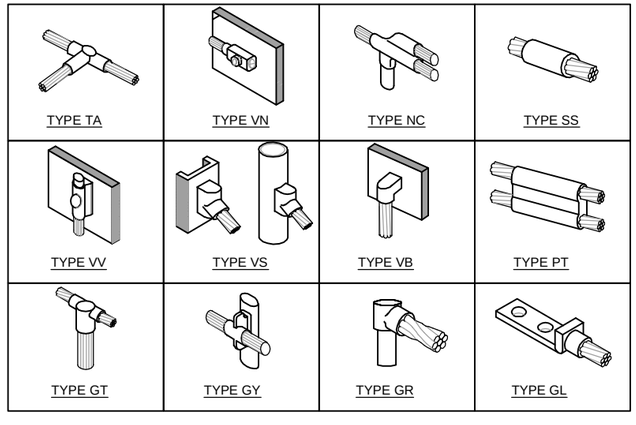


NOTES

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHERPROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

GROUND CABLE CONNECTION 3

NOT TO SCALE



CADWELD GROUNDING CONNECTIONS 2

NOT TO SCALE

NOT USED 1

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2	4-14-11	FINAL ZONING	RJA
3	6-21-11	FINAL ZONING	RJA

RYAN J. ANDERSON — STATE OF WASHINGTON — 46331 — REGISTERED PROFESSIONAL ENGINEER

SITE

SB13
CARILLON POINT

2000 CARILLON POINT
KIRKLAND, WA 98033

SHEET TITLE

GROUNDING DETAILS

SHEET NUMBER

E-2

Drawing: P:\2010_Telecom\10-601 AT&T - SB13 Carillon Pt\Drawings\Zoning\1060120-E2-0.dwg Plotted: Jun 23, 2011 - 9:43am